

Title (en)
DRY CLEANING METHOD AND SOLVENT

Title (de)
VERFAHREN UND LÖSUNGSMITTEL ZUM CHEMISCHEN TROCKENREINIGEN

Title (fr)
PROCEDE ET SOLVANT DE NETTOYAGE A SEC

Publication
EP 1084289 B2 20050525 (EN)

Application
EP 99934010 A 19990714

Priority
• US 9915920 W 19990714
• US 11535298 A 19980714

Abstract (en)
[origin: US5942007A] A dry cleaning system and method, in which specially designed or modified machinery is used in conjunction with a specific solvent which is derived from an organic/inorganic hybrid (organo silicone). In this class of organo silicones is a group known as cyclic siloxanes. The cyclic siloxanes present the basis for material composition of the solvent chemistry which allows this dry cleaning system to be highly effective. The cyclic-siloxane-based solvent allows the system to result in an environmentally friendly process which is, also, more effective in cleaning fabrics and the like than any known prior system. The siloxane composition is employed in a dry cleaning machine to carry out the method of the invention. In a preferred embodiment, the method comprises the steps of loading articles into a cleaning basket; agitating the articles and the siloxane composition in which they are immersed; removing most of the siloxane composition; centrifuging the articles; subjecting the articles to a partial vacuum pressure and elevated temperature; and removing the articles from the basket after cooling the articles and returning the pressure to ambient.

IPC 1-7
D06L 1/02

IPC 8 full level
C11D 1/82 (2006.01); **C11D 3/37** (2006.01); **C11D 11/00** (2006.01); **D06F 43/00** (2006.01); **D06F 43/08** (2006.01); **D06L 1/02** (2006.01); **D06L 1/04** (2006.01); **D06L 1/08** (2006.01)

CPC (source: EP KR US)
C11D 1/82 (2013.01 - EP US); **C11D 3/373** (2013.01 - EP US); **C11D 3/3734** (2013.01 - EP US); **D06F 43/007** (2013.01 - EP US); **D06F 43/081** (2013.01 - EP US); **D06F 43/085** (2013.01 - EP US); **D06L 1/02** (2013.01 - EP KR US); **D06L 1/04** (2013.01 - EP US); **D06L 1/08** (2013.01 - EP US)

Citation (opposition)
Opponent :
International Standard 150 3175 (15.7.1979)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 5942007 A 19990824; AR 019386 A1 20020213; AR 020112 A1 20020410; AT E215631 T1 20020415; AU 4993599 A 20000207; AU 752824 B2 20021003; BR 9912088 A 20010410; BR 9912088 B1 20100713; CN 1141436 C 20040310; CN 1309733 A 20010822; CO 5090927 A1 20011030; CZ 200134 A3 20010516; CZ 291091 B6 20021211; DE 69901179 D1 20020508; DE 69901179 T2 20021114; DE 69901179 T3 20060112; DK 1084289 T3 20020624; DK 1084289 T4 20050801; EP 1084289 A1 20010321; EP 1084289 B1 20020403; EP 1084289 B2 20050525; ES 2175999 T3 20021116; HK 1036641 A1 20020111; HU 228639 B1 20130429; HU P0102648 A2 20011228; HU P0102648 A3 20030528; IL 140832 A0 20020210; IL 140832 A 20060801; IL 140833 A 20060801; JP 2002520508 A 20020709; JP 3338429 B2 20021028; KR 100610966 B1 20060810; KR 20010071906 A 20010731; NO 20010231 D0 20010112; NO 20010231 L 20010314; NO 330363 B1 20110404; NZ 509452 A 20021025; PL 207711 B1 20110131; PL 345509 A1 20011217; PT 1084289 E 20020930; TR 200100312 T2 20010723; WO 0004221 A1 20000127; ZA 200100224 B 20010807; ZA 200100225 B 20010807

DOCDB simple family (application)
US 11535298 A 19980714; AR P990103434 A 19990714; AR P990103435 A 19990714; AT 99934010 T 19990714; AU 4993599 A 19990714; BR 9912088 A 19990714; CN 99808589 A 19990714; CO 99044449 A 19990714; CZ 200134 A 19990714; DE 69901179 T 19990714; DK 99934010 T 19990714; EP 99934010 A 19990714; ES 99934010 T 19990714; HK 01107202 A 20011015; HU P0102648 A 19990714; IL 14083201 A 20010110; IL 14083299 A 19990714; IL 14083301 A 20010110; JP 2000560309 A 19990714; KR 20017000593 A 20010115; NO 20010231 A 20010112; NZ 50945299 A 19990714; PL 34550999 A 19990714; PT 99934010 T 19990714; TR 200100312 T 19990714; US 9915920 W 19990714; ZA 200100224 A 20010109; ZA 200100225 A 20010109